

TITLE: ELEVATED TEMPERATURE OXIDATION PROTECTION COATINGS FOR TITANIUM
ALLOYS AND METHODS OF PREPARING THE SAME
INVENTOR: DEREK RAYBOULD
DOCKET: H0002477
ATTY: ROBERT DESMOND PHONE: (602) 365-2588

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EFFECT OF COATING THICKNESS ON STRENGTH

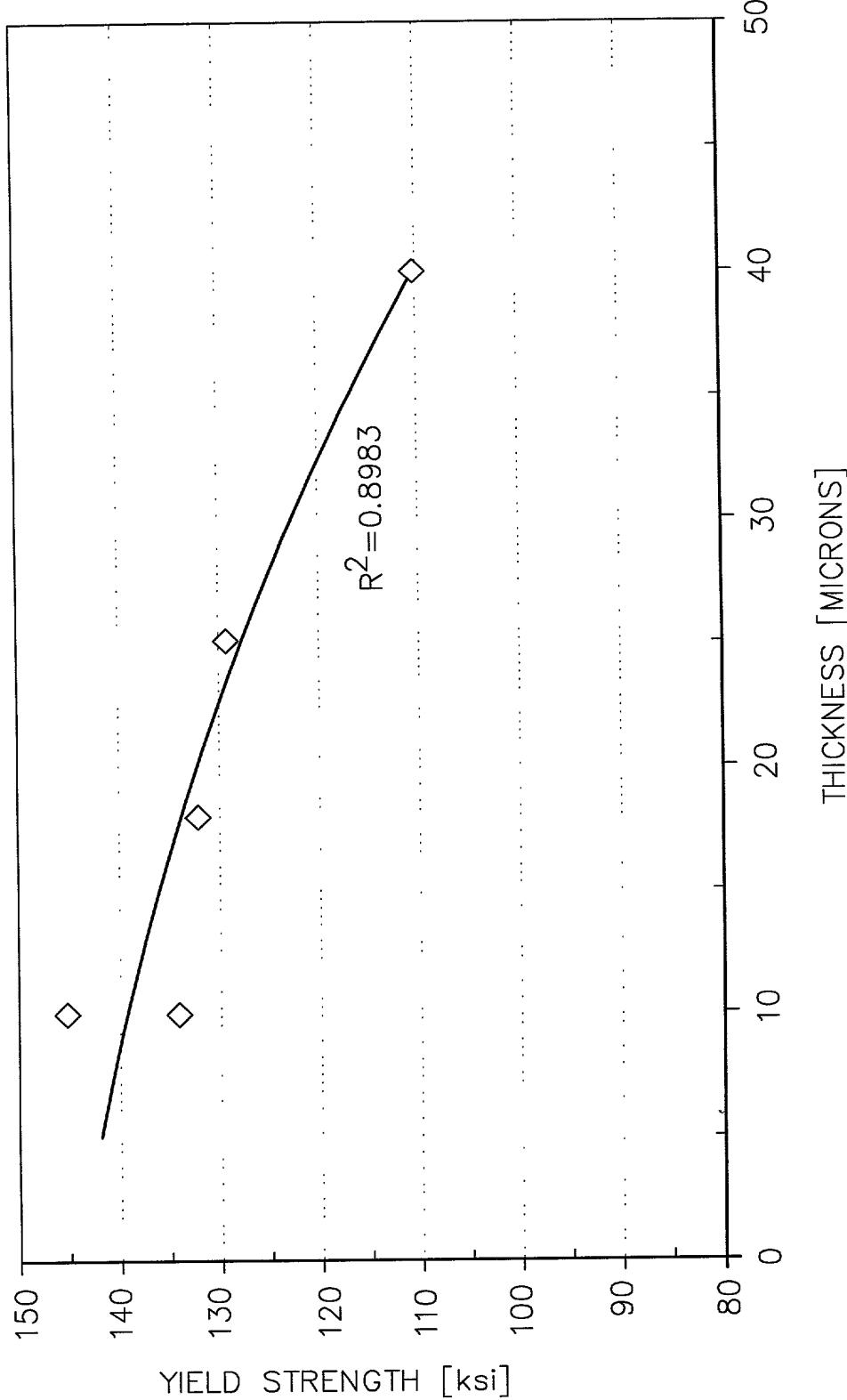


FIG. 1

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PROTECTIONS THICKNESS AFFECT ON FATIGUE OF 4 mil Ti21S at 35 ksi, R 0.1

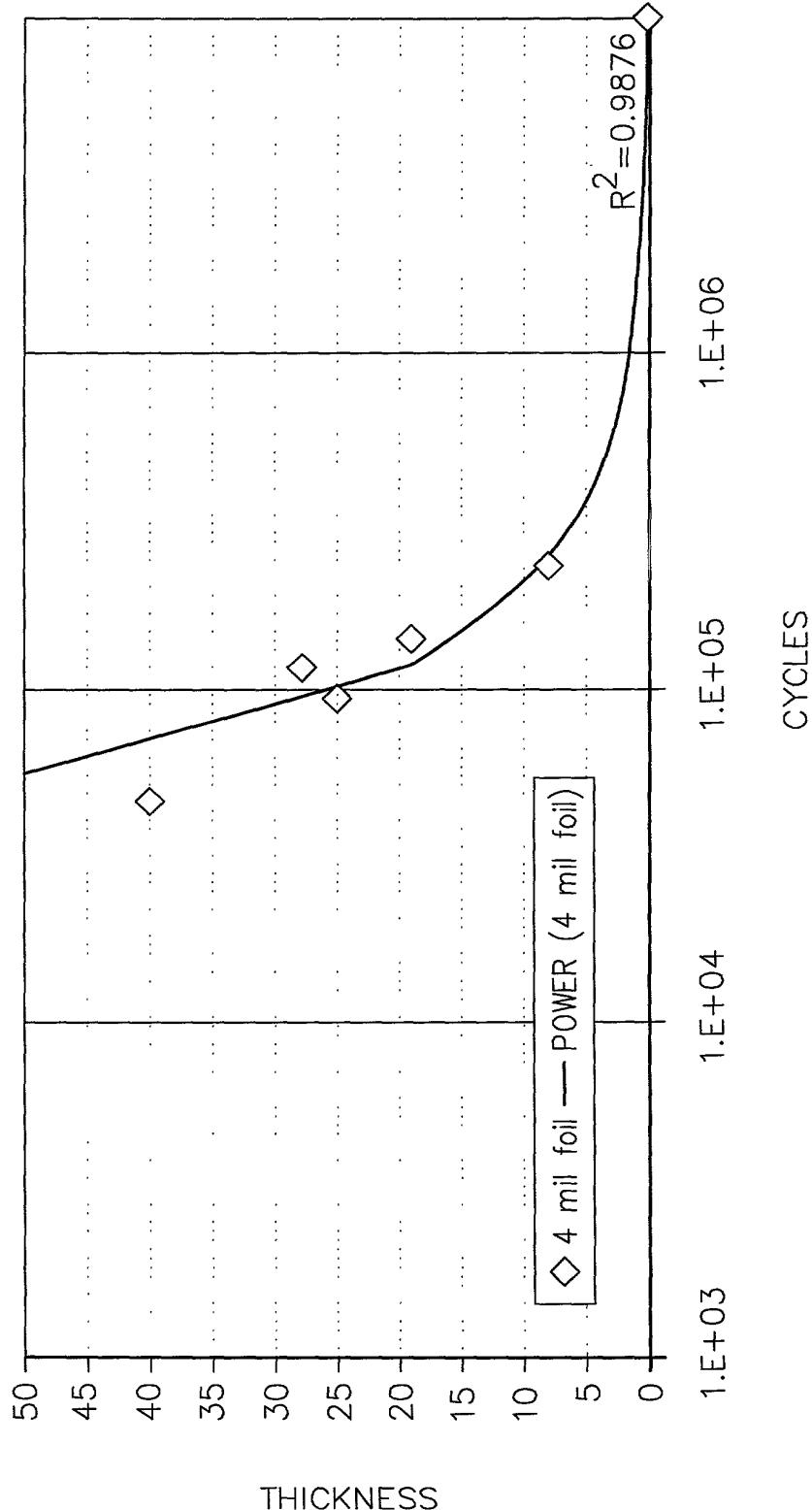


FIG. 2

CYCLES

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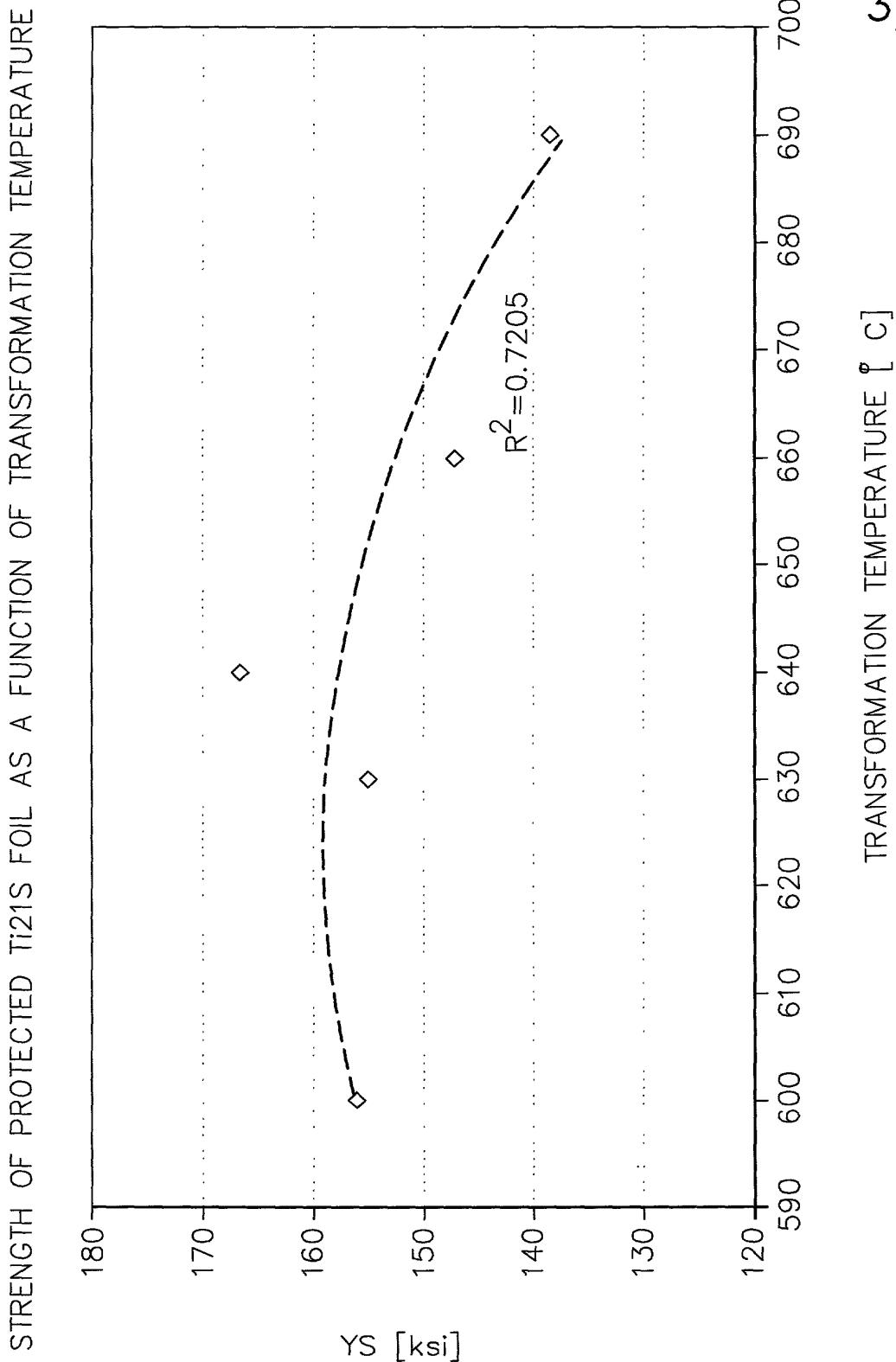


FIG. 3

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FATIGUE LIFE OF PROTECTED Ti21S FOIL AS A FUNCTION OF TRANSFORMATION TEMPERATURE

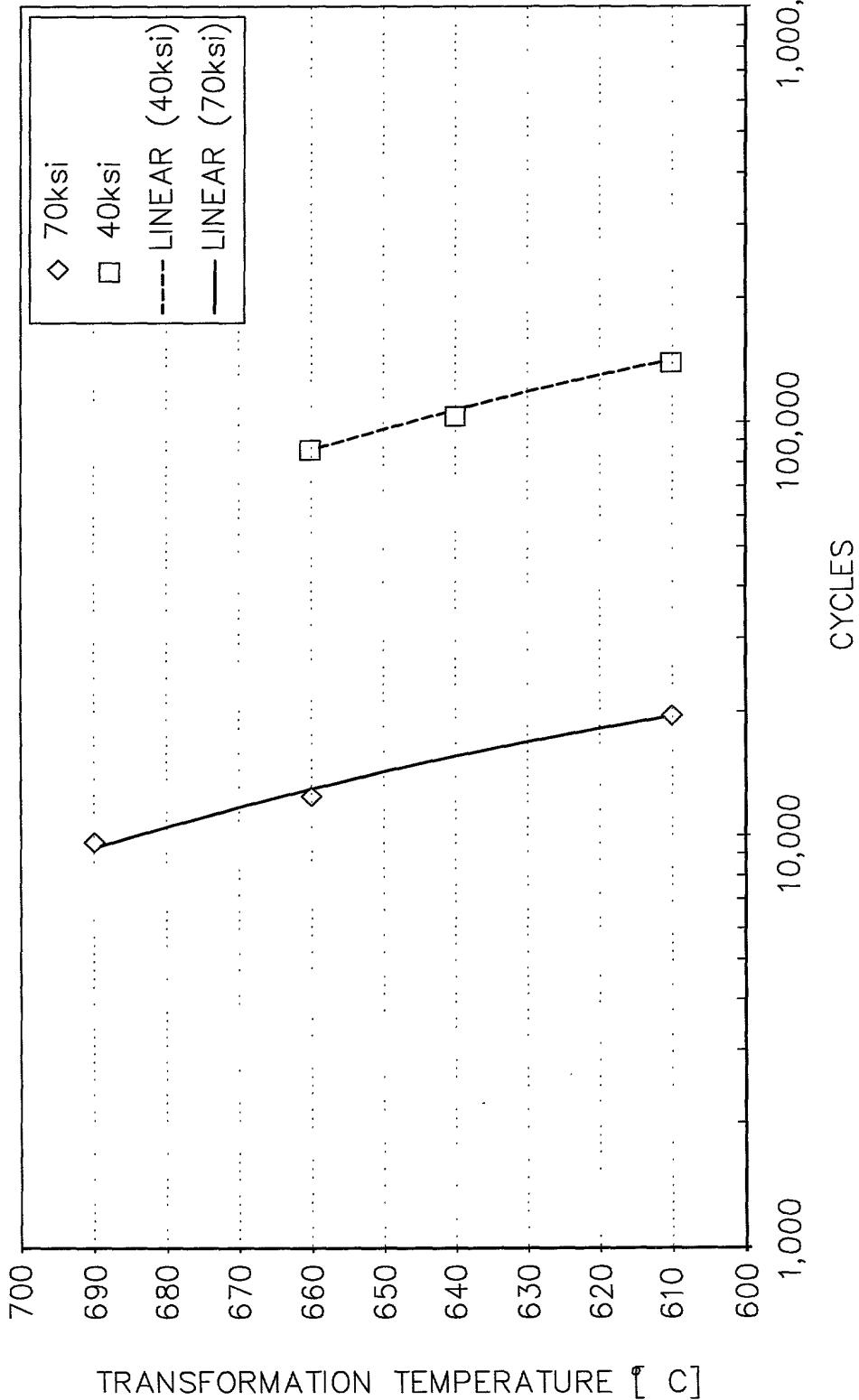


FIG. 4

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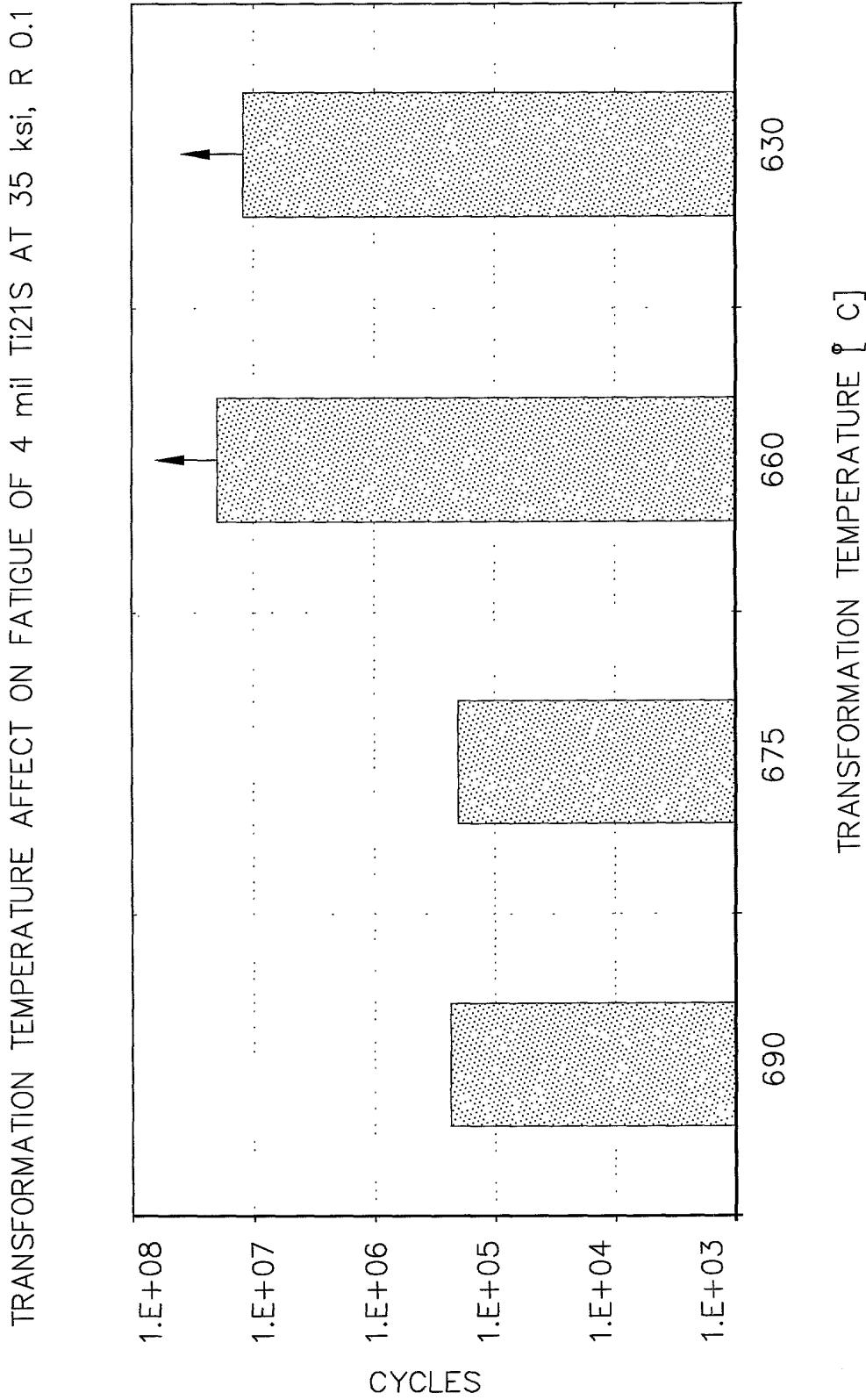


FIG. 5

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MICROGRAPH OF COATED TITANIUM FOIL AFTER A HEAT
TREATMENT BELOW THE MELTING POINT OF ALUMINUM

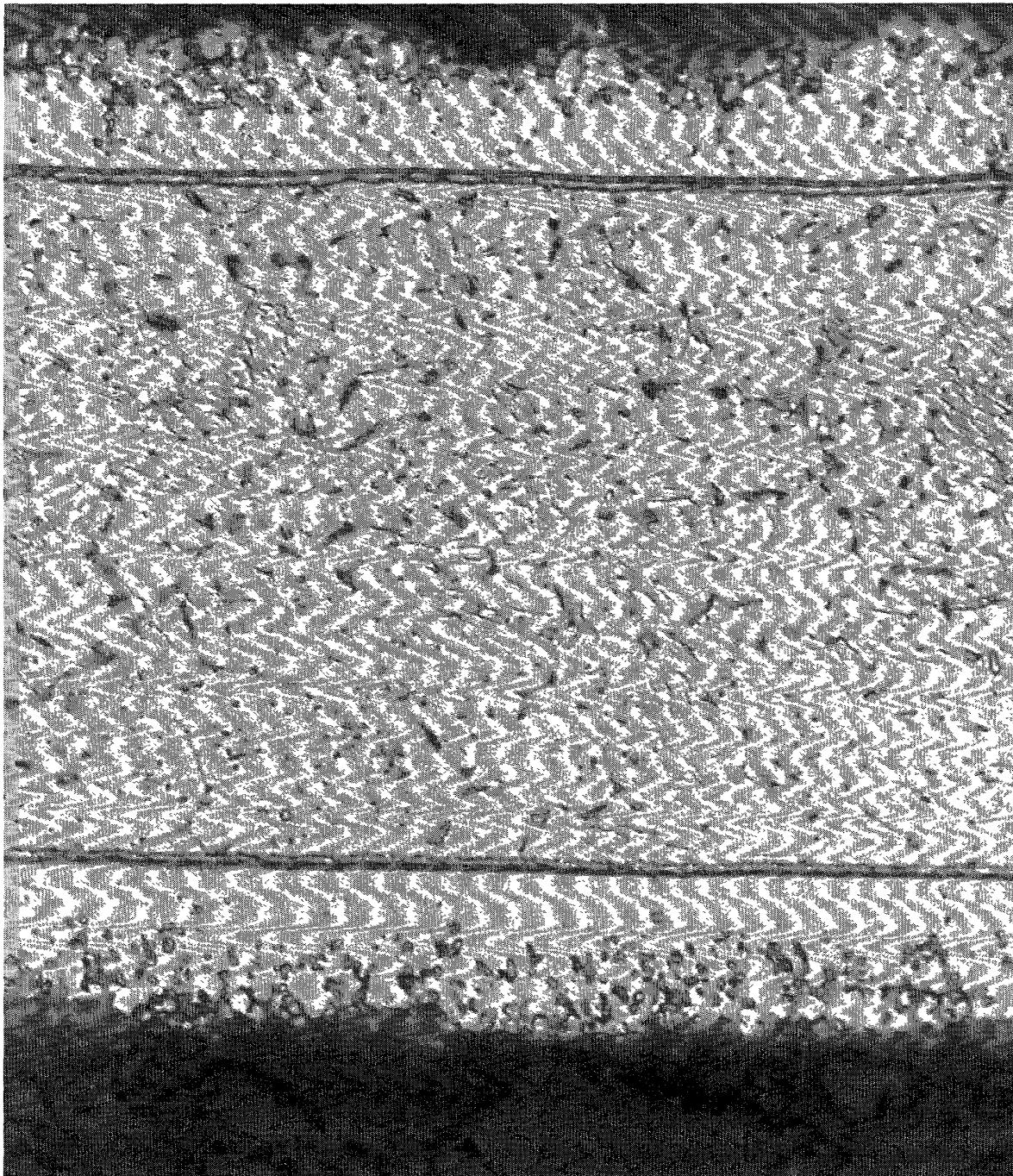


FIG. 6

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